09/497533

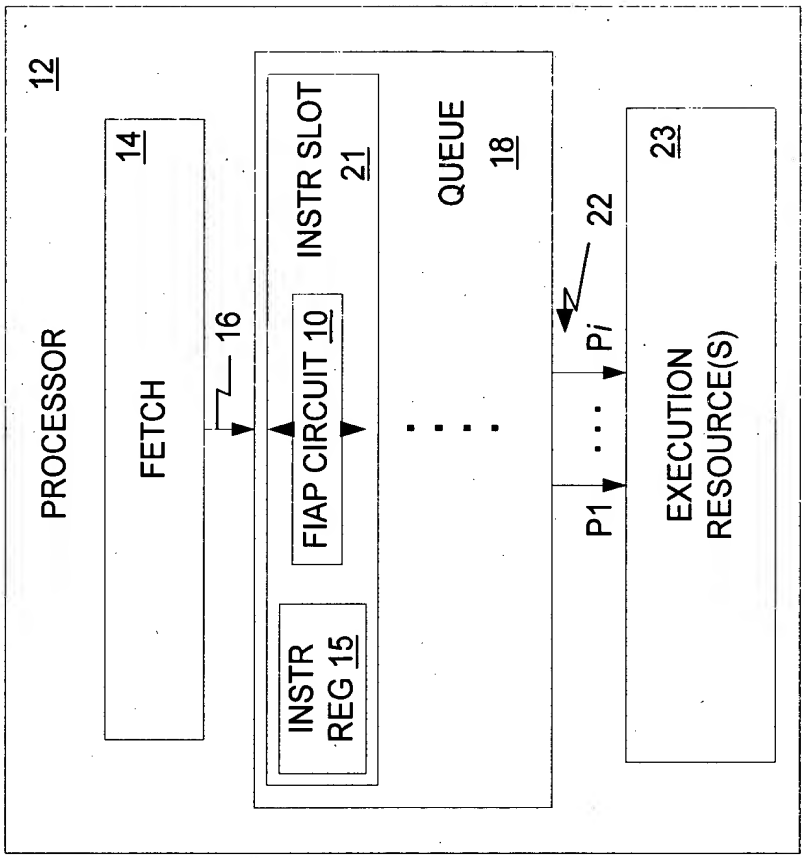
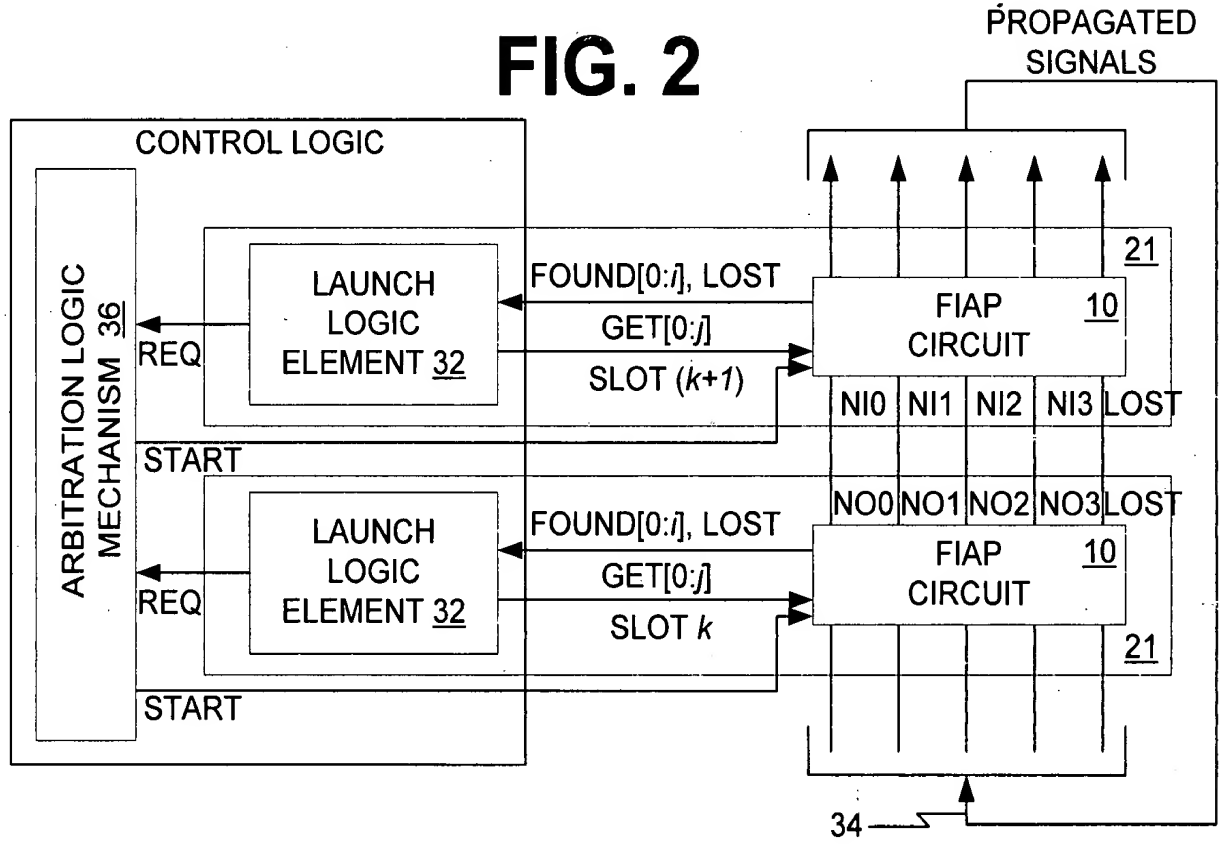


FIG. 1

FIG. 2


PROPAGATED SIGNALS
CONTROL LOGIC
ARBITRATION LOGIC MECHANISM 36
LAUNCH LOGIC ELEMENT 32
REQ
START
FOUND[0:i], LOST
GET[0:j]
SLOT (k+1)
SLOT k
21
FIAP CIRCUIT 10
NI0 NI1 NI2 NI3 LOST
NO0 NO1 NO2 NO3 LOST
34

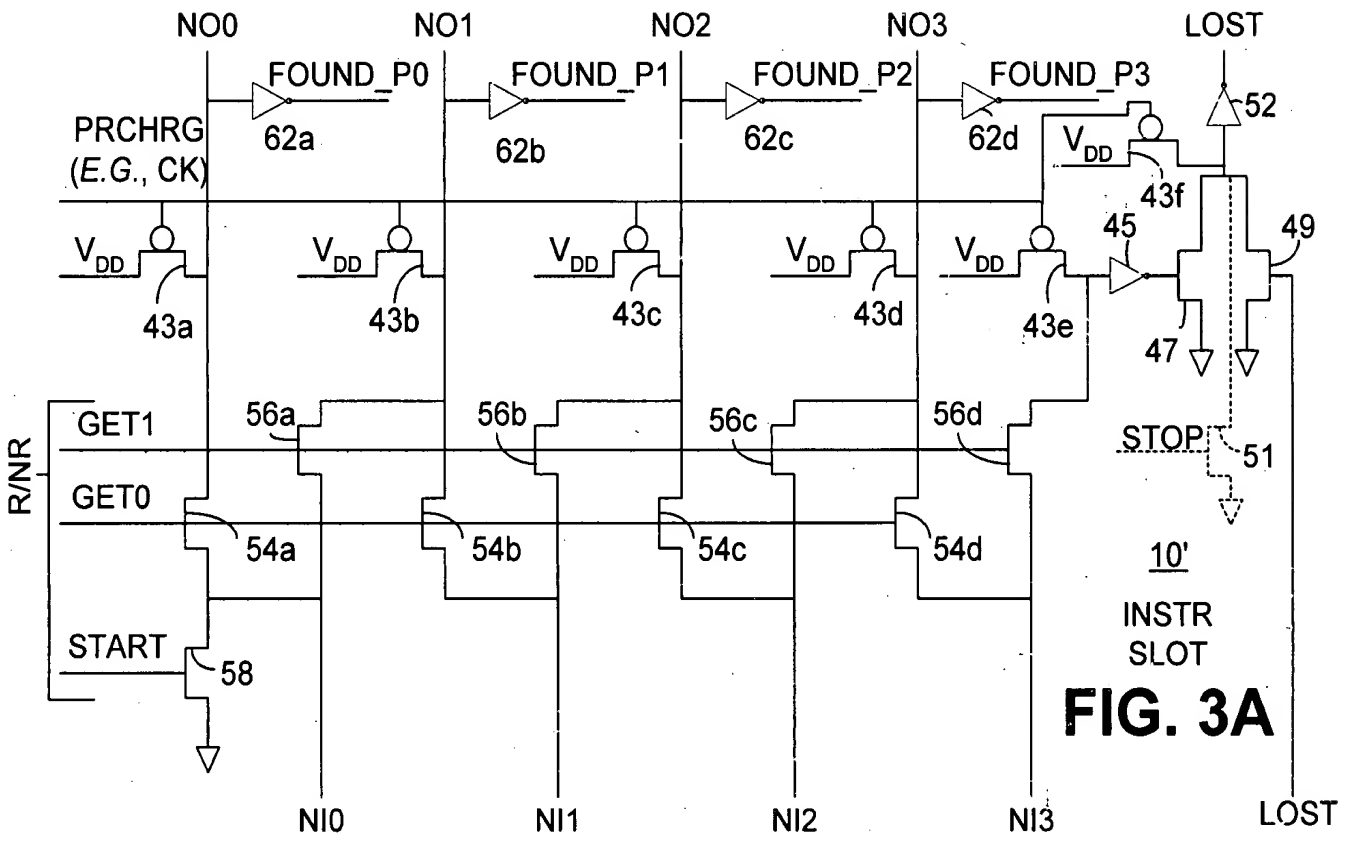

NO0
NO1
NO2
NO3
LOST
FOUND_P0
FOUND_P1
FOUND_P2
FOUND_P3
62a
62b
62c
62d
52
PRCHRG
(E.G., CK)
VDD
43f
45
49
43a
43b
43c
43d
43e
47
GET1
56a
56b
56c
56d
STOP
51
R/NR
GET0
54a
54b
54c
54d
10'
INSTR
SLOT
START
58
NI0
NI1
NI2
NI3
LOST

FIG. 3A

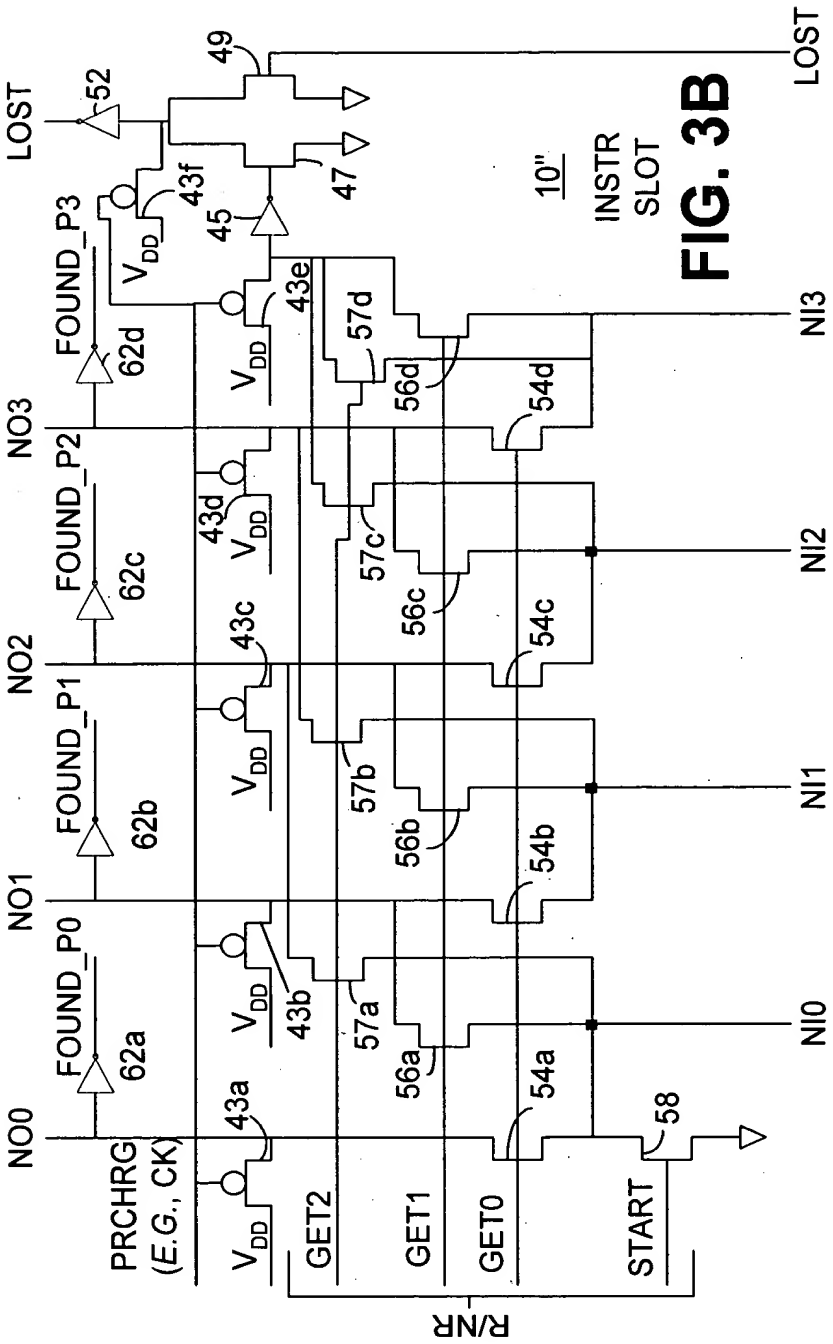

LOST
52
49
47
43f
45
FOUND_P3
62d
V_{DD}
43e
57d
56d
54d
NI3
NO3
FOUND_P2
62c
43d
57c
56c
54c
NI2
NO2
FOUND_P1
62b
43c
57b
56b
54b
NI1
NO1
FOUND_P0
62a
43b
57a
56a
54a
NI0
NO0
43a
58
PRCHRG
(E.G., CK)
GET2
GET1
GET0
START
R/NR
10"
INSTR
SLOT
LOST

FIG. 3B

INSTR SLOT	STAT	NO0	NO1	NO2	NO3	L	LAUNCH OR NOT?
7	R	0	0	0	0	1	NO
6	R	0	0	0	0	1	YES, TO P3
5	R	0	0	0	1	0	YES, TO P2
4	NR	0	0	1	0	0	NO
3	R	0	0	1	0	0	YES, TO P1
2	NR	0	1	0	0	0	NO
1	R	0	1	0	0	0	YES, TO P0
0	NR	1	0	0	0	0	NO

FIG. 4